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Abstract. This document describes the preparation of an article using LaTeX 2_ε and `iopart.cls` (the IOP LaTeX 2_ε preprint class file). This class file is designed to help authors produce preprints in a form suitable for submission to any of the journals published by IOP Publishing. Authors submitting to any IOP journal, i.e. both single- and double-column ones, should follow the guidelines set out here. On acceptance, their TeX code will be converted to the appropriate format for the journal concerned.

1. Introduction

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In Ref. [1]... In Refs. [1, 2]... On webpage [3]...

2. Results and discussions

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2.1. Sample subsection

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Figure 1. This is sample picture – ShareLaTeX lion.

2.2. Simplified coding and extra features for tables

The basic coding format can be simplified using extra commands provided in the `iopart` class file. The commands up to and including the start of the tabular environment can be replaced by

```
\Table{\label{label}Table caption}
```

this also activates the definitions within `\lineup`. The final three lines can also be reduced to `\endTable` or `\endtab`. Similarly for a table which does not fit in

Table 1. A table with headings spanning two columns and containing notes. To improve the visual effect a negative skip (\ns) has been put in between the lines of the headings. Commands set-up by \lineup are used to aid alignment in columns. \lineup is defined within the \Table definition.

Nucleus	Thickness (mg cm^{-2})	Composition	Separation energies	
			γ, n (MeV)	γ, 2n (MeV)
^{181}Ta	19.3 $\pm 0.1^{a}$	Natural	7.6	14.2
^{208}Pb	3.8 $\pm 0.8^{b}$	99% enriched	7.4	14.1
^{209}Bi	2.86 $\pm 0.01^{b}$	Natural	7.5	14.4

[a] Self-supporting.
[b] Deposited over Al backing.

when indented \fulltable{\label{label}caption} ... \endfulltable or \endtab can be used. LaTeX optional positional parameters can, if desired, be added after \Table{\label{label}caption} and \fulltable{\label{label}caption}.

\centre{#1}{#2} can be used to centre a heading #2 over #1 columns and \crule{#1} puts a rule across #1 columns. A negative space \ns is usually useful to reduce the space between a centred heading and a centred rule. \ns should occur immediately after the \\ of the row containing the centred heading (see code for table 1). A small space can be inserted between rows of the table with \ms and a half line space with \bs (both must follow a \\ but should not have a \\ following them).

References

[1] J. Doe, Article name, *Phys. Rev. Lett.*
[2] J. Doe, J. Smith, Other article name, *Phys. Rev. Lett.*
[3] www.google.pl